UTAH DIVISION OF OIL AND GAS CONSERVATION

.FILE_X__WATER SANDS_ ELECTRIC LOGS WELL LOG 7-15-77 DATE FILED LAND: FEE & PATENTED PUBLIC LEASE NO. U-027403 STATE LEASE NO. INDIAN DRILLING APPROVED: 7-15-77

SPUDDED IN: COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION: GRAVITY A.P.I. GOR:

PRODUCING ZONES: TOTAL DEPTH:

WELL ELEVATION: DATE ABANDONED:

TWP.

FIELD:

UNIT: COUNTY: Grand WELL NO. Harrison Fed. 30-1

360' FT. FROM (S) LINE. 3301 LOCATION RGE. SEC. **OPERATOR**

API NO: 43-019-30380 SE SE SE /4 - 1/4 SEC. 30

TWP. RGE. **OPERATOR** SEC.

FT. FROM (E) YW) LINE.

20\$ 30 THOMAS D. HARRISON 24E

FILE NOTATIONS			
FILE NOTATIONS	7		2
Entered in NID File		Checked by Chief	***************************************
Entered On S R Sheet	***************************************	Copy NID to Field Office	
Location Map Pinned		Approval Letter	A.C
Card Indexed		Disapproval Letter	######################################
I W R for State or Fee Land	, /		
COMPLETION DATA	4:		
Date Well Completed	***************************************	Location Inspected	
ow ww	TA	Bond released	*
GW OS	. PA	State of Fee Land	
	LOGS FI	ILED	
Driller's Log			
Bectric Logs (No.)	÷	
Ē, I	E-1	GR GR-N	Micro
	* * #	Others	

10:30 90 300

as per telephone call- 1/2/80, Well to be drilled next month (Feb)

6734 Crest Road
Palos Verdes, Calif. 90274

State of Utah
Dept. of Natural Resources
Division of Oil and Gas
c/o Mr Patrick L. Driscoll
Chief Petrolium Engineer
1588 West North Temple
Salt Lake City, Utah, 84116

Dear Mr Driscoll:

CIRCULATE TO:

July 1, 1977

PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANTIAL

LGCIVI FL 16-11 1977

Enclosed herewith is an application to drill that I have submitted this day to the USGS, requesting approval to drill a development well in the Gravel Pile Field, Grand County, Utah.

I am hoping that said approvals can be granted quickly, in order that I can drill this well at the same time as the Harrison Federal 31-1, located 720 feet South, and approved for drilling on February 8, 1977.

As in the case of the 31-1 well, the subject proposed well is twinning an old abandonded well, the log of which is enclosed. Both the Cedar Mountain and Brushy Basin objectives look promising. There is a fault identified, which runs E-W and separates the 31-4 well from the 30-1 well.

We are hoping that permission can be granted to drill the 30-1 well in mid-September, after drilling the 31-1 well.

If additional information is needed, please advise me as such.

Sincerely,

Thomas D. Harrison, Operator

UNITED STATES
DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLIC.

(Other instructions comereverse side)

Form approved. Budget Bureau No. 42-R1425.

\∕3	DEPARTMEN GEOLG	T OF THE II GICAL SURVI	(RYOR			5. LEASE DESIGNATION U02740		NO.		
APPLICATIO	N FOR PERMIT	TO DRILL, D	DEEP	EN, OR PLUC	G BA	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NA	.MB		
1a. TYPE OF WORK DR	ILL 🗓	DEEPEN []	PLUG	BAC	' 🗆	7. UNIT AGREEMENT	NAME) _		
OIL 45 0	VELL OTHER				ULTIPLE	· 🗆	8. FARM OR LEASE N.	AME /			
2. NAME OF OPERATOR				,			NARRESON XX	KBXXXB3	i t		
Thomas D.	Harrison						9. WELL NO.				
3. ADDRESS OF OPERATOR				21		•	HARRISON F	_	.1		
6734 Cres	t Road, Palos	Verdes.	Cal :	if. 90274			10. FIELD AND POOL,				
At surface							Gravel Pil		DeveT.		
SE SE SE S	S-30, T-20S,	R-24E, Gr	arıd	County, U	tah.	,	11. SEC., T., R., M., OR AND SURVEY OR A	BLK. REA			
At proposed prod. zor							S-30. T-	20S. R-	24E,SLBM		
Same as al	AND DIRECTION FROM NEA	REST TOWN OR POST	OPTIC	E.			12. COUNTY OR PARIS				
4 miles No	orth of Cisco	. Utah					Grand	Utah	ı		
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr)	OSED* T LINE, FT. 7	30 feet		o. of acres in leas	E .		F ACRES ASSIGNED HIS WELL	<u> </u>			
18. DISTANCE FROM PROI	POSED LOCATION* DRILLING, COMPLETED,		19. PI	ROPOSED DEPTH		20. ROTA	RY OR CABLE TOOLS				
OR APPLIED FOR, ON TH	IIS LEASE, PT. 2	00 feet	7	750	1	R	otary				
21. ELEVATIONS (Show wh	· · · · · · · · · · · · · · · · · · ·						22. APPROX. DATE W	ORK WILL STA	RT*		
	1 GL						Septemb	er 20,	<u> 19</u> 77		
23.	1	PROPOSED CASIN	G ANI	D CEMENTING PRO	OGRAM	ſ					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH			QUANTITY OF CEMENT				
9 1/4	7"	24 lbs		80 ft		Ci:	irculate to surface				
6 1/4	4호 "	10.5 1	<u>bs_</u>	TD (750)	_	25	sax				
		1						•			
Proposed v	vell to be dr	illed 30	feet	t North of	the	abai	ndonded well	l marke	Ž		
number "Fe	ederal Shelto	n No. 4".	Tar	get zone i	is t	he B	rushy Basin	conglo	merate		
	2 ft to 710 f										
Federal Sh	nelton No. 4	well). We	bel	lieve this	to	be th	ne Field oi	L which	was		
	the previous										
^				_							

number "Federal Shelton No. 4". Target zone is the Brushy Basin conglomerate at the 702 ft to 710 ft depth(See enclosed induction log of the abandonded Federal Shelton No. 4 well). We believe this to be the Field oil which was missed in the previous well due to mud drilling. We will drill with air as far as possible, switching to water based mud if neccessary. We will set 4½ inch casing above the zone, and drill into the pay on air. Completation of the well will be open hole. BOP is a Regan series 600 Torus, 7 1/16 "

I.D. rated 6000 psi. The fill, kill, and choke lines will be attached to IN ADOLE PART PRESENT PROPERTY PROPE

() () () () () () () () () ()	ommercial.
SIGNED THE Operator	DATE June 30, 1977
(This space for Federal or State office use) PERMIT NO	-
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	DEC 2 0 1977

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U.S. GEOLOG-AL SURVEY, CONSERVATION DI-SION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH
TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Wel1	Location		Lease No.
Thomas D. Harrison	SEYASEYASEYA Sec	30, T.205, R.29E	
No. 30-1 Fed.	SLM, Grand Count	1, Utah	U-02/403
1. Stratigraphy and Pot 0il and Gas Horizons Collar in Lower por Basin for oil and g abundand Fabrual Sha estimated at 700 2. Fresh Water Sands. Tush water again	as. Hole is an off ton No. 4. Bushy	set located 30'no	th of the ate top is
3. Other Mineral Bearin (Coal, Oil Shale, Po	g Formations. tash, Etc.) None		
4. Possible Lost Circul Sanda.	ation Zones. Daket	a and Brushy	Basin
5. Other Horizons Which Mud, Casing, or Ceme	May Need Special Mon	re	
6. Possible Abnormal Prand Temperature Grad	essure Zones orly no ients. Actions are an	inal to depth o.	I to the
7. Competency of Beds a Casing Setting Point Casing program		edequate for the:	APD
8. Additional Logs or S and DIL show	amples Needed. Minin	un equivalent	to FOC-CNA
9. References and Remar the Gravel Pile	KGS.		
Date: 07-27-	77 '	Signed: Donald C.	alward

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	EIA NO. 615
LEASE U- 027403	DATE 8-4-77
WELL NO. farison 7ed 30-1	
LOCATION: SF 4 SF 4, SEC. 30 T. 205	R. <u>24E</u>
FIELD Gravel Pile COUNTY Gran	STATE Utah
ENVIRONMENTAL IMPACT ANALYSIS - AT	TACHMENT 2-B
1. PROPOSED ACTION	
Thomas D. Harrison PROPOSES	TO DRILL AN OIL AND
GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 250 FT.	
DRILL PAD 60 FT. X 90 FT. AND A RESERVE PIT	< FT. X_30 FT.
3) TO CONSTRUCT FT. WIDE X MILES ACCES	
FT. WIDE X MILES ACCESS ROAD FROM AN EXISTING A	ND IMPROVED ROAD. TO CONSTRUCT
GAS OIL PRODUCTION FACILITIES ON THE DISTURBED	AREA FOR THE DRILL PAD
AND TRUCK TRANSPORT THE PRODUCTION THROUGH A I	PIPELINE TO A TIE-IN IN
SECTION T. R.	
2. LOCATION AND NATURAL SETTING (EXISTING ENVIRONMENT)	AL SITUATION).
(I) TOPOGRAPHY: ROLLING HILLS DISSECTED	TOPOGRAPHY DESSERT
OR PLAINS STEEP CANYON SIDES NARROW CANYON FL	· ·
IN AREA SURFACE WATER	
(2) VEGETATION: SAGEBRUSH PINION-JUNIPER	
(CULTIVATED) NATIVE GRASSES TOTHER SPAN	se Sattbrush

(3) WILDLIFE: DEER LANTELOPE ELK BEAR SMALL MAMMA L BIRDS ENDANGERED SPECIES OTHER
(4) LAND USE: RECREATION RESIDENTIAL OIL & GAS OPERATIONS
REF: BLM UMBRELLA EAR Oil & Las Feasing Program USFS EAR Franch Resource cinca 8-13-75- OTHER ENVIRONMENTAL ANALYSIS
3. Effects on Environment by Proposed Action (potential impact)
1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC
ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.
2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE
DISTURBANCE AND SUPPORT TRAFFIC USE.
3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.
4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.
TO THE STATE OF TH
5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.
6)

1)	NOT APPROVING THE PROPOSED PERMIT THE OIL AND GAS LEASE GRANTS THE
	EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL
	O GAS DEPOSITS.
2)	DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE
	MENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS
ACTION	
3)	LOCATION WAS MOVED TO AVOID
	BOATION WAS TOVED
LA	RGE SIDEHILL CUTS NATURAL DRAINAGE OTHER
4)	
	·
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5. A	verse Environmental Effects Which Cannot Be Avoided
5. <u>A</u>	Iverse Environmental Effects Which Cannot Be Avoided Name AND DOLLETION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT
1	MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT
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JACOBS DRIILING COMPANY

ROSS JACCBS, OWNER 405 West Mayfield Grand Junction, Colo. 81501

MULTI-POINT SURFACE USE AND OPERATIONS PLAN (NTL-6) HARRISON FEDERAL NUMBER 30-1

- A-1: There are adaquate existing roads to within 20 feet of the well location. See attached map.
- A-2: There are no new planned access roads to the location.
- A-3: See enclosed map.
- A-4: See enclosed production facility layout.
 - A-5: All water to be hauled from the Colorado River.
- A-6: No construction materials required.
 - A-7: Haul garbage to garbage dump, and have a portable toilet.
 - A-8: None required.
- A-9: See enclosed Well site layout map.
- A-10: Gravel access road and location if needed in the event of production. Level and re-seed location and access road if required. In addition, Operator will backfill pit, replace topsoil, etc, as per instructions of BLM representative within 90 days of notice.
- A-11: Surface formation is Mancos shale. Surface is flat (see enclosed photograph of well location).
- A-i2: Operator's Representative is:

Thomas D. Harrison 6734 Crest Road Palos Verdes, Ca. 90274

A-13:

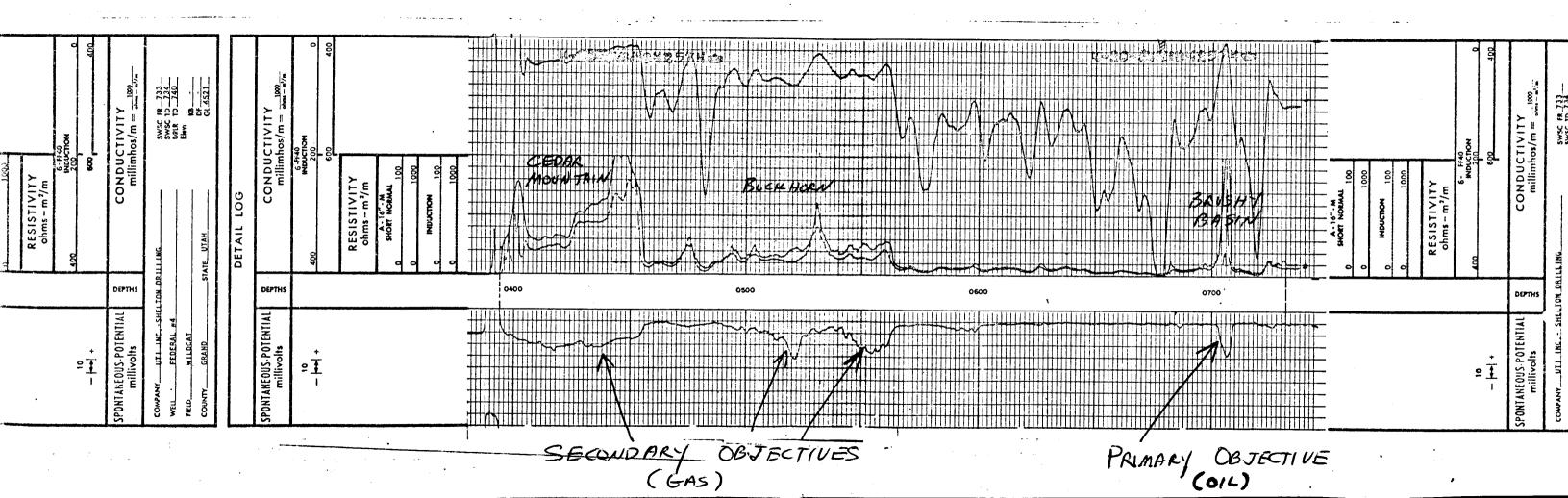
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that

the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by JACOBS DRILLING COMPANY, Grand Junction, Colorado, and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

November 17, 1976

THOMAS D. HARRISON, Operator

Vote - this log was taken from the abandonded well located 30. feet South of the location of Ruposed Harrian 30-1 well. DST RECORD SPUD DATE FIELD or LOCATION WILDCAT FEDERAL



JACOBS DRILLING COMPANY

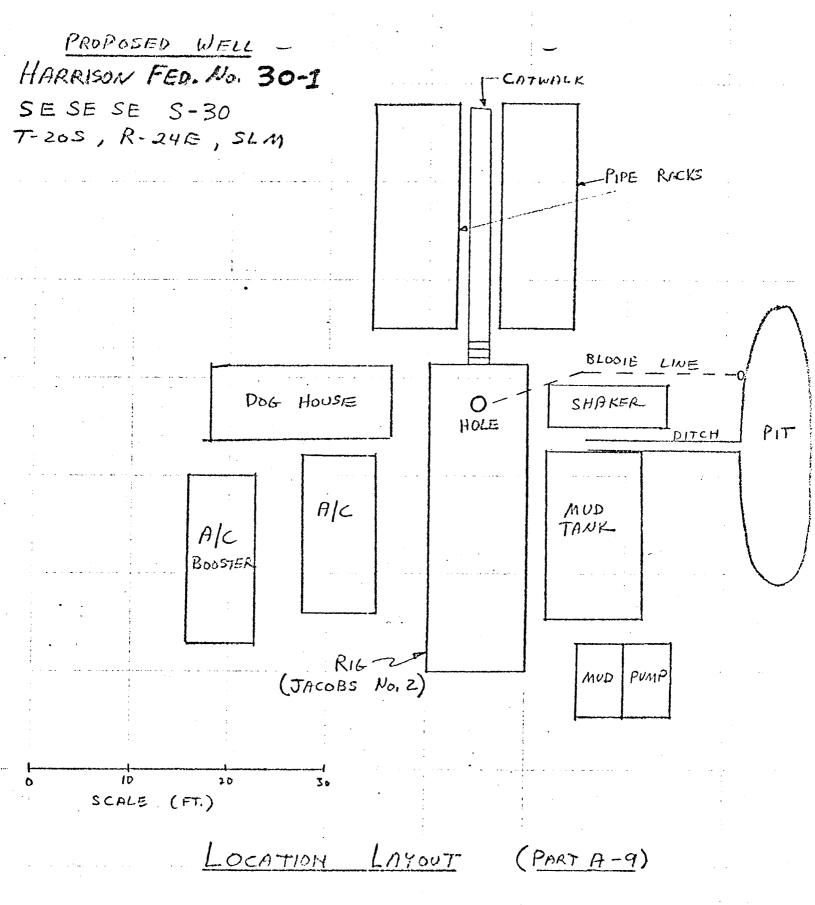
ROSS JACOBS, OWNER 405 West Mayfield Dr. Grand Junction, Colo, 81501

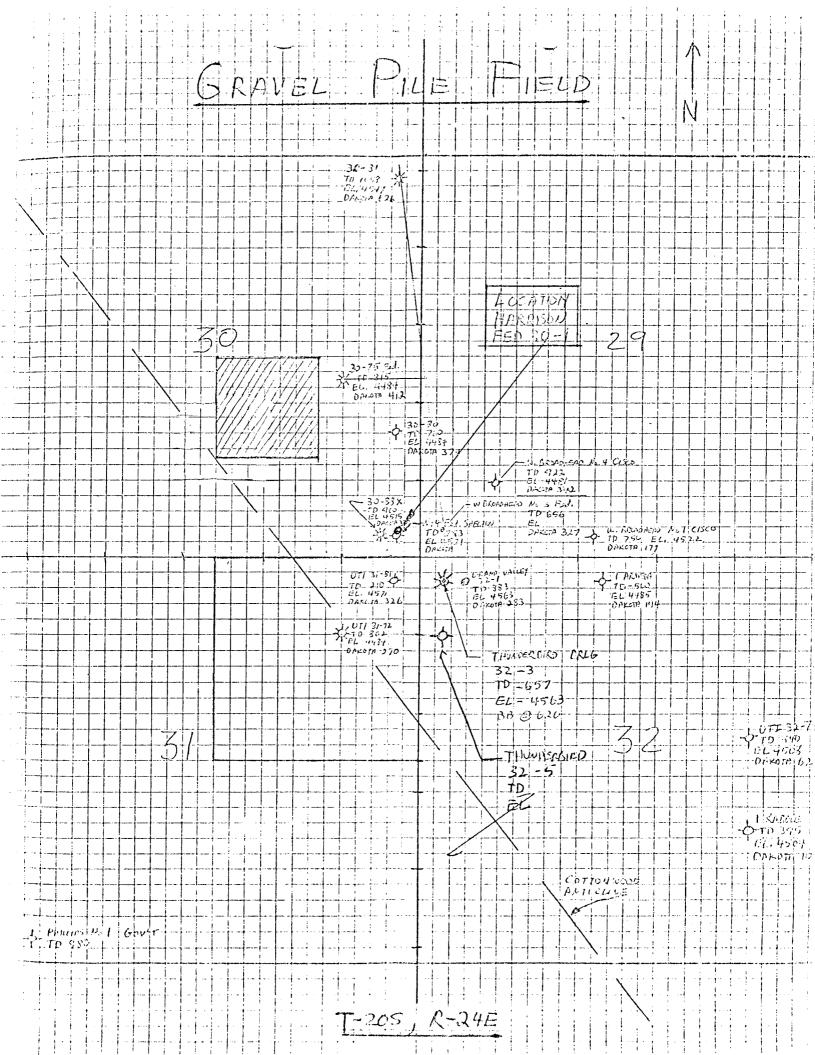
SEVEN POINT CASING AND BOP PROGRAM

HARRISON FEDERAL NUMBER 30-1 WELL

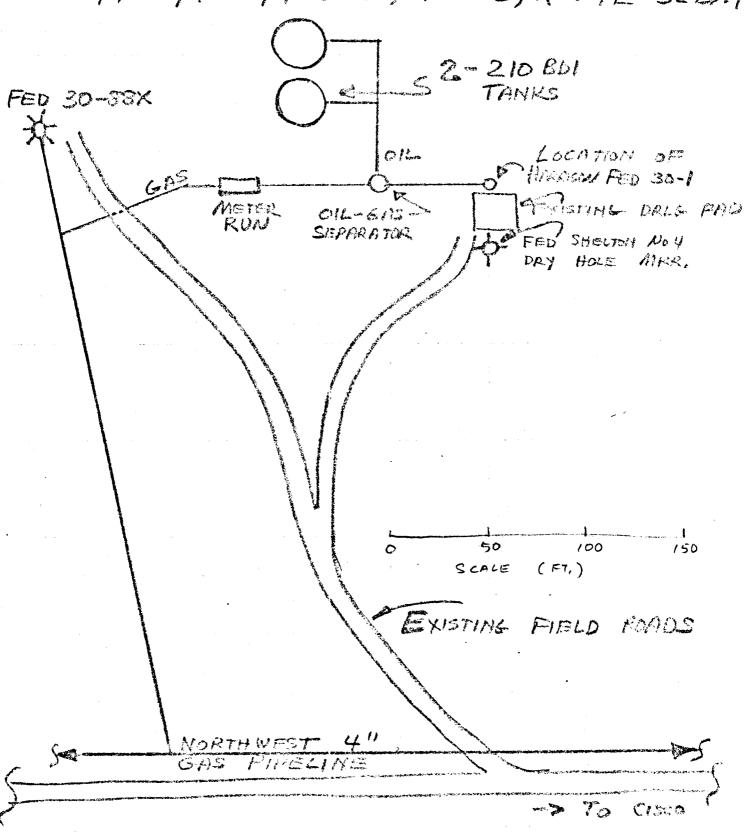
- 1. Surface casing will be 80 feet of 7" O.D. J-55, used.
- 2. Operator will use 7" 6000 psi spool with Regan Torus BOP above spool. A 7" 3000 psi spool will be used above the BOP. A rotating head will be used above the flow line spool.
 - 3, Operator does not plan to run an intermediate string of casing.
- 4. The BOP is a bag type, 600 series Regan Torus of 7-1/16 " I.D.
- 5. Auxiliary Equipment to be used:
 - A: 6000 psi shutoff valve on standpipe
 - B: One float at Bit, and one string float.
 - C: Sub $3\frac{1}{2}$ " I.F. to 2" valve for controling blowouts for use when making round trips in event of well blowouts.
 - 6. The maximum bottom hole pressure anticipated for the Harrison Federal No. 30-1 well is 360 psi...based on the drilling of the previous well at this same location in 1964.
- 7. Operator plans to drill with air as far as possible, which based on the drilling of the previous well should be all the way to TD at 750 feet. Water base drilling mud will be used in the event that formation water is encountered, and to control or kill oil and/or gas flows when running long string of 4½ " 10.5 lb. casing. No additional logs are anticipated to be run, as log of the previous well drilled at this location is already available, and of which a copy is enclosed with this permit application.

THOMAS D. HARRISON, Operator





GRAVEL - PILE FIELD DEVELOPMENT PROPOSED WELL - HARRISON FED. No. 30-1 SE/4 SE/4 SE/4 S-30, T-20S, R-24E SLBM

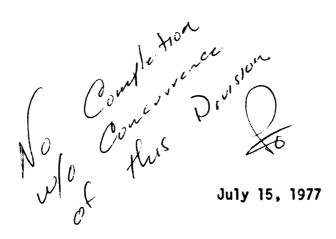


LOCATION OF TANK BATTERY & FLOW LINES (PART A-4)

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** FILE NOTATION	is **
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CHECKED BY:	
Administrative Assistant	
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Petroléum Engineer Remarks:	will have to check
Director 2 Pvi6	used Perforated interval before Completion is allowed.
Remarks:	ceill were b per Coveting contro either by Perf. Co. A Hadauit ov
INCLUDE WITHIN APPROVAL LETTER:	64 perf. collar 109.
Bond Required //	Survey Plat Required //
Order No. 102-5 [1]	Surface Casing Change /
Rule C-3(c), Topographic exception/con within a 660' radius of p	npany owns or controls acreage
0.K. Rule C-3 // 0.K.	In Unit /
Other: Must Dubrut	DRILLE
yes your men	11 - DRILLE



Thomas D. Harrison 6734 Crest Road Palos Verdes, California 90274

> Re: Well No. Harrison Fed. 30-1 Sec. 30, T. 20 S, R. 24 E, Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Cause No. 102-5, and the Order issued therein. However, please be advised that due to the close proximity of the above well to those already drilled in Section 30, this well may not be completed as a gas well in the Buckhorn or Dakota Formations. Consequently, it will be necessary that this Division receive copies of the electric logs run on your well prior to completion operations being performed.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer

HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be netified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30380.

Very truly yours,

CLEON B. FEIGHT Director

cc: U.S. Geological Survey

GORDON E. HARMSTON

Executive Director.

NATURAL RESOURCES

CLEON B. FEIGHT

Director

OIL, GAS, AND MINING BOARD

I. DANIEL STEWART

Chairman

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES**

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116

> (801) 533-5771 August 17, 1978

CHARLES R. HENDERSON JOHN L. BELL **THADIS W. BOX** C. RAY JUVELIN

Thomas D. Harrison 6734 Crest Road Palos Verdes, California 90274

77-0707

Re: Well No. Harrison Federal #1 Sec. 31, T. 20S, R. 24E, Grand County, Utah April 1977 thru' June 1978

> Well No. Harrison Federal #30-1 Sec. 30, T. 20S, R. 24E, Grand County, Utah October 1977 thru' June 1978

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

hy Auen RECORDS CLERK

SCOTT M. MATHESON Governor

GORDON E. HARMSTON Executive Director. NATURAL RESOURCES

> CLEON B. FEIGHT · Director



OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON Chairman

JOHN L. BELL C. RAY JUVELIN THADIS W. BOX **CONSTANCE K. LUNDBERG EDWARD T. BECK** E. STEELE McINTYRE

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771

December 27, 1979

Thomas D. Harrison (11-10-80 Palos Verdes, Cal. 90274

RE: Well No. Harrison Federal # 1 Sec. 31, T. 20S, R. Grand County, Utah Months of April 1977 thru Nov. 1979.

> Well No. Harrison Federal # 39-1 / Sec. 30, T. 20S, R. 24E, Grand County, Utah Months of October 1977 thru Nov. 1979

SECOND NOTICE ON BOTH

Gentlemen:

Our records indicate that you have not filed the monthly drilling report(s) for the month (s) indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Pratice and Procedure, requires that said reprots be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

DEBBIE BEAUREGARD CLERK-TYPIST

There will be no more approvals of applications until this office receives this information.

phone call: 1/1/80 will be drilled next mo. (7.4)



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 29, 1982

Thomas D. Harrison 1923 Wingate Drive Grand Junction, Colo. 81503

Re: Well No. Pioneer #2
Sec. 13, T. 20S, R. 23E
Grand County, Utah

Well No. Harrison Federal 30-1 Sec. 30, T. 20S, R. 24E Grand County, Utah

Well No. Harrison Federal 31-1A Sec. 31, T. 20S, R. 24E Grand County, Utah

SECOND NOTICE

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells, and action will be taken to terminate the application. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist



Scott M. Matheson, Governor, Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

St. Patrick's Day!

Thomas D. Harrison 1923 Wingate Drive Grand Junction, Colorado 81503

Re: Well No. Pioneer #2
Sec. 13, T. 20S, R. 23E.
Grand County, Utah

Well No. Harrison Federal 30-1 Sec. 30, T. 20S, R. 24E. Grand County, Utah

Well No. Harrison Federal 31-1A Sec. 31, T. 20S, R. 24E. Grand County, Utah

Gentlemen:

Approval to drill the above mentioned wells, which was granted in our letter of December 2, 1980, July 15, 1977 & January 18, 1980, is hereby terminated for failure to spud them within a reasonable period of time.

If and when you should decide to drill these wells, it will be necessary for you to again obtain approval of the Division.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight

Director